

### **Surgeries in Bariatrics:**

Restrictive Surgery Involves creating a smaller gastric pouch to promote early satiety and reduced oral intake

## 1. Balloon

- Endoscopic procedure
- Decreases gastric space and stays for 6 months
- Creates a feeling of **fullness**
- May be used **pre-surgery**

## **Side Effects:**

- 1. Nausea & vomiting (common post-op) → stays for a week after surgery
  - → Sometimes needs antiemetics
- 2. **Dehydration** from GI upset and reduced intake
  - → May require hospitalization
- 3. Balloon deflation (<5%)
  - → uncommon if removed after 6 months , but if it occurs, may **cause obstruction** requiring **surgical removal**

### 2. Gastric Band

- Band placed around the **fundus**
- Safest procedure in bariatric surgery
- Reversible & adjustable
- Produces less weight loss

### **Pros:**

- Simple, safe
- Reversible
- Fast recovery and short hospitalization

### Cons:

- Risk of erosion, displacement, infections since you add Foreign body inside the patient (10%)
- Slower weight loss
- Requires close follow-up

# **♦ 3. Sleeve Gastrectomy**

- Vertical reduction of the stomach into a sleeve shape (~25%)
- Single procedure can be used standalone or **before bypass**

#### Pros:

- 1. No disconnection of intestines
- 2. No impact on vitamin absorption

#### Cons:

- 1. Irreversible
- 2. New procedure with less dat
- 3. Risk of **leak/bleeding** (<5%)

## Malabsorptive Procedures

Bypass intestines to **prevent absorption** before mixing with digestive juices

## 1. Biliopancreatic Diversion

- Horizontal subtotal gastrectomy to reduce oral intake (gastric pouch here is larger than roux en y surgery )
- Greater weight loss than Roux-en-Y
- It's a Roux-en-Y anastomosis with short common alimentary channel
- risk of leak and nutritional deficiency

### 2. Duodenal Switch

- Sleeve gastrectomy + diversion
- Can be used after sleeve gastrectomy
- Mixed Procedures (Gold Standard)
- Combine restrictive + malabsorptive components

#### Pros:

- 1. Faster and more weight loss
- 2. Better control of DM
- 3. Reliable for high BMI patients

### Cons:

- 1. Risk of **iron & calcium deficiency** (especially post-menopausal women)
- 2. B12 def.  $\rightarrow$  tx by supplement
- 3. Leak at anastomosis
- 4. **Dumping syndrome** (after sugary or high-fat meals)
- 5. Inability to undergo normal GI exam (e.g., endoscopy)



